		Smart Skie	S		
		2009 Science	e		
Academic Standards					
Minnesota Science					
Grade 5					
Activity/Lesson	State	Standards			
			Use appropriate tools and techniques in		
Fly by Math	MN	SCI.5.5.1.3.4.1	gathering, analyzing and interpreting data.		
			Identify the force that starts something moving		
Fly by Math	MN	SCI.5.5.2.2.1.2	or changes its speed or direction of motion.		
		201 = = 2 2 4 2	Demonstrate that a greater force on an object		
Fly by Math	MN	SCI.5.5.2.2.1.3	can produce a greater change in motion.		
Library Library Mala Namada	N 4N 1	001550040	Identify the force that starts something moving		
Line Up with Math	MN	SCI.5.5.2.2.1.2	or changes its speed or direction of motion.		
		Smart Skie			
		2009 Science			
		Academic Stand			
Minnesota Science		Academic Stand			
Grade 6					
Activity/Lesson	State	Standards			
Activity/Lc33011	Otate	Otandards	Measure and calculate the speed of an object		
Fly by Math	MN	SCI.6.6.2.2.1.1	that is traveling in a straight line.		
T Ty Dy Watti		001.0.0.2.2.1.1	For an object traveling in a straight line, graph		
			the object's position as a function of time, and its		
			speed as a function of time. Explain how these		
Fly by Math	MN	SCI.6.6.2.2.1.2	graphs describe the object's motion.		
, ,			Recognize that when the forces acting on an		
			object are balanced, the object remains at rest		
			or continues to move at a constant speed in a		
			straight line, and that unbalanced forces cause a		
			change in the speed or direction of the motion of		
Fly by Math	MN	SCI.6.6.2.2.2.1	an object.		
			Measure and calculate the speed of an object		
Line Up with Math	MN	SCI.6.6.2.2.1.1	that is traveling in a straight line.		
			For an object traveling in a straight line, graph		
			the object's position as a function of time, and its		
			speed as a function of time. Explain how these		
Line Up with Math	MN	SCI.6.6.2.2.1.2	graphs describe the object's motion.		
			Recognize that when the forces acting on an		
			object are balanced, the object remains at rest		
			or continues to move at a constant speed in a		
			straight line, and that unbalanced forces cause a		
Live e I lee contain NA ethe	N 4 N I	001000004	change in the speed or direction of the motion of		
Line Up with Math	MN	SCI.6.6.2.2.2.1	an object.		
		Smart Skie	<u> </u>		
		2009 Science			
Academic Standards					
Minnesota Science		Academic Otali			
Grade 8					
Activity/Lesson	State	Standards			
	,				

			Understand that scientific knowledge is always			
			changing as new technologies and information			
Fly by Math	MN	SCI.8.8.1.3.3.2	enhance observations and analysis of data.			
		Smart Skie				
2009 Science Academic Standards						
Minneseta Osianaa		Academic Stand	gards			
Minnesota Science Grades 9-12						
Activity/Lesson	State	Standards				
Activity/Lesson	State	Standards	Formulate a testable hypothesis, design and			
			conduct an experiment to test the hypothesis,			
			analyze the data, consider alternative			
		SCI.9-	explanations and draw conclusions supported			
Fly by Math	MN	12.9.1.1.2.1	by evidence from the investigation.			
T Ty by Watt	IVIIV	12.0.1.1.2.1	Relate the reliability of data to consistency of			
		SCI.9-	results, identify sources of error, and suggest			
Fly by Math	MN	12.9.1.3.4.4	ways to improve data collection and analysis.			
			najo to improvo data concentra and analysis.			
		Smart Skie	S			
		2009 Science	ce			
		Academic Stand	dards			
Minnesota Science						
Grades 9-12 (Physi	cs)					
Activity/Lesson	State	Standards				
			Use vectors and free-body diagrams to describe			
		SCI.9-	force, position, velocity and acceleration of			
Fly by Math	MN	12.9P.2.2.1.1	objects in two-dimensional space.			
			Apply Newton's three laws of motion to calculate			
		SCI.9-	and analyze the effect of forces and momentum			
Fly by Math	MN	12.9P.2.2.1.2	on motion.			
			lles vesters and free best discusses to describe			
		SCI.9-	Use vectors and free-body diagrams to describe			
Line Lle with Meth	MN	12.9P.2.2.1.1	force, position, velocity and acceleration of objects in two-dimensional space.			
Line Up with Math	IVIIN	12.9P.2.2.1.1	Apply Newton's three laws of motion to calculate			
		SCI.9-	and analyze the effect of forces and momentum			
Line Up with Math	MN	12.9P.2.2.1.2	on motion.			
Line op with Math	IMIM	12.31.2.2.1.2	on motion.			